

WE CLAIM:

1. A pressure sensor system suitable for HVAC airflow control applications comprising:
 - a) a simple probe tube located in an area of low turbulence, high velocity airflow of the HVAC airflow;
 - b) the simple probe tube connected to a pressure sensor transducer;and
 - c) whereby the signal from the transducer can be used to monitor the airflow of the HVAC application.
2. The pressure sensor system of Claim 1 wherein the pressure sensor transducer is connected to a variable speed motor controller for monitoring and controlling the HVAC airflow.
3. The pressure sensor system of Claim 1 wherein the variable speed motor controller is connected to a blower motor for controlling the HVAC airflow.
4. The pressure sensor system of Claim 1 wherein the low turbulence, high velocity airflow area is a flow ring surrounding a blower motor.

5. The pressure sensor system of Claim 4 wherein the blower motor is a variable speed blower motor.

6. The pressure sensor system of Claim 1 wherein the pressure sensor transducer is a differential pressure sensor.

7. The pressure sensor system of Claim 6 wherein the pressure sensor transducer is an electronic pressure sensor.

8. The pressure sensor system of Claim 1 wherein the pressure sensor transducer is an electronic pressure sensor.

9. The pressure sensor system of Claim 6 further comprising a second tube connected at a second side of the pressure sensor for a reference pressure.

10. The pressure sensor system of Claim 4 wherein the simple probe tube is part of an assembly comprising a clip for attachment of the simple probe tube to an inside surface of the flow ring.

11. The pressure sensor system of Claim 2 wherein the HVAC airflow is monitored and controlled directly from the pressure sensor transducer.



12. The pressure sensor system of Claim 2 wherein the HVAC airflow is monitored and controlled from the pressure sensor transducer and in conjunction with other data.

13. The pressure sensor system of Claim 4 wherein the flow ring has the highest velocity in the HVAC airflow.

